

## Abstract

The present invention provides a developing method and a developing unit which can obtain a favorable image quality and the like even when a surface roughness  $R_z$  of a developing sleeve is changed or when an amorphous-silicon photoconductor is used by allowing the magnetic monocomponent toner to effectively jump to a photoconductor from a developing sleeve. To attain such an object, the present invention provides a magnetic monocomponent jumping developing system and a developing unit which uses the method, wherein as the magnetic monocomponent toner, a toner having a volume center particle size which is calculated from the particle size distribution based on volume and falls within a range from 6.0 to 7.8 $\mu\text{m}$ , having the sphericity which falls within a range from 0.92 to 0.98, and setting a toner quantity having a volume particle size of 5.04 $\mu\text{m}$  or less to a value which falls within a range from 2.5 to 10.0 volume% is used and, at the same time, assuming a toner quantity per unit area of the toner image as  $A$ , a following relationship formula (1) is satisfied.

$$0.6\text{mg}/\text{cm}^2 \leq A \leq 0.9\text{mg}/\text{cm}^2 \quad (1)$$